29 January 1960

MLMORANDUM FOR: C/DPD-DD/P

ATTENTION

: C/Operations Branch

Subject

: 22 Magnum Pistol (.22 Cal. Winchester Magnum

Rimfire, WM, Cartridge)

REFERENCE

: Memorandum for C/BS; DPD 0589-60, dated

25 January 1960

1. The .22 caliber, WMR, cartridge used in the .22 caliber Mannus pistols has a hollow point, jacksted bullet. It is not made in any other type. The hand gums utilizing this cartridge are all revolvers. In accordance with the above reference request the following information is advanced:

a. Mussle Velocity

Barrel Length (in)	Velocity (fpe)
4	1350 1560
6 8	1560 1690
10	1780

Mussle energy for a 62" barrel is 210 ft-lbs.

b. Audible Range

The audible range of the .22 caliber WAR cartridge, regardless of hand gun type, is approximately 2-5 miles depending upon the local terrain.

c. Projectile Weight and Gies

Weight - 40 grains Size - 0.224" base diameter and approximately 7/16" long

d. Type of Powder and Load

The Winchester .22 WMR cartridge uses a ball powder (x2077) especially designed for this round. The round is loaded with 7.7 grains of this powder.

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e. Trajectory Data

The following data applies to a pistel with a 6" barrel utilizing a machine rest.

25 yards 50 yards 100 yards ½" group 1" group trajectory 2.3"

f. Pistol Weight and Barrel Lengths

There are available three manufactured types of pistols for the .22 MMR cartridge; Ruger, Smith and Wesson, and Celt. All of these pistols are revolver types. The Ruger "Single Six" (single action $6\frac{1}{6}$ " barrel weighs approximately 35 os. loaded. The Smith and Wesson K-22 Masterpiece Target - 6" barrel weighs approximately 38 os. loaded. The Colt Frontier Scout (single action) - $\frac{1}{6}$ " barrel weighs approximately 30 os. loaded.

g. Suitability for Survival and EAE Purposes

Considering the cartridge was designed for varmint shooting, this round should be effective for small game. Although a rifle is superior for survival purposes, the data indicates that a pistol could be utilized. As an E&E aid, the .22 Magnum pistols are not of a concealable nature, such as the "Stinger". These weapons are standard type handguns. For personal protection at short ranges the .22 Magnum pistol should be effective. However, without guidance as to the exact intent or purpose desired it is difficult to answer this question.

h. Suitability for Silencer Modification

The .22 Magnum pistols, which are all revolvers, are not suitable for silencer modification. Due to the open head space between cylinder and barrel, common to all revolvers, it is impossible to prevent back blast from the weapon. The only type of revolver suitable for silencing, due to its peculiar cylinder action, is the Russian 7.62mm Magant. If the mussle velocity of round is reduced to less than 1000 fps it is possible to achieve some silencing of pistols. However, with standard ammunition this is not possible.

1. Recommended Model and Cost

Of all the .22 caliber Magnum pistols on the market, the Smith and Wesson K-22 Masterpisce Target revolver 6" barrel is recommended. This weapon is double action while the other types

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are all single action. This weapon has adjustable rear sights for vindage and elevation, other types do not. In addition the cylinder is the swing out type which allows for easier extraction of fixed cases and quicker reloading than other types. The hand grip of the Smith and Wesson is conventional whereas the other type weapons are western style.

The cost of the Smith and Wesson .22 Caliber K-22 Masterpiece Terget Revolver - 6" barrel is \$76.00, retail. Assumition, Winchester .22 caliber WMR, 50 rounds - \$2.60.

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DPD 0589-60

25 July 1960

MEMORANDUM FOR: Chief, Technical Services Staff

ATTENT ION:

Chief, Engineering Division

SUBJECT:

22 Magnum Pistol

- 1. It is requested that the following specific information be provided on the 22 Magnum Pistol:
 - a. Muzzle Velocity

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- b. Audible Range
- c. Bullet Weight and Size
- d. Type of Powder and Amount
- e. Trajectory Data
- f. Pistol Weight
- g. Barrel Lengths Available
- h. Suitability for Survival and E & E Purposes
- i. Suitability for Silencer Modification
- j. Recommended Model and Cost

	2.	It is	requeste	d that	the	above	informat	tion be	pro	vided
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to				DPD,	/AS,	exten	aior			7

STANLEY W. BEERLI Chief, Operations Branch DPD-DD/P

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